## CONTENTS

(Abstracts/contents list published in: Biological Abstracts, Current Contents AB & ES, Ecological Abstracts, Ecology Abstracts, Environment Abstracts, Environmental Periodicals Bibliography (EPB))

Editorial	
About pour journal: Ecological Modelling	
S.E. Jørgensen (Copenhagen, Denmark)	1
Hydrological modeling of acidified Canadian watersheds	
A.G. Bobba and D.C.L. Lam (Burlington, Ont., Canada)	;
Protein and fat dynamics in fish: a bioenergetic model applied to aquaculture	33
O.J. Cacho (Auburn, AL, U.S.A.)	3,
Model estimation of excess CO2 distribution in biosphere structure	
V.F. Krapivin and L.P. Vilkova (Moscow, U.S.S.R.)	57
Evaluation – by cluster analysis - of descriptors for the establishment of significant subunits in Antarctic soils	
M. Bölter (Kiel, Federal Republic of Germany)	79
Dynamic 2-D model of plant communities	
V.V. Galitsky (Pushchino, U.S.S. R.)	95
SPECOM - a single tree model of pine stand /raw humus soil ecosystem	
O.G. Chertov (Leningrad, U.S.S.P.)	1 07
Use of simulation methods for determining critical leaf water potential for stomatal closure in field conditions	
N. Katerji (Thiverval Grignom, France)	1 33
A composite landscape ecology prognostic expert system — COLEPES,	
Part I. System Philosophy and design	
Z. Štěrbáček, V. Škopek (České Budějovice, Czechoslovakia) and V. Zavázal (Prague, Czechoslovakia)	1 45
Dipodomys populations as energy-processing systems: regulation, competition, and hierarchical	
organization  B.A. Maurer (Tucson, AZ, U.S.A.)	1 57
Simulation of cotton rat population dynamics and response to rodenticide applications in Florida sugarcane	
C.L. Montague, L.W. Lefebyre, D.G. Decker (Gainesville, FL, U.S.A.) and N.R. Holler (Auburn,	
AL, U.S.A.)	177
Application of a formal specification language to animal ecology. I. Environment	
D.E. Abel and B.S. Niven (Brisbane, Qld., Australia)	205
Discussion Paper	
Theory and model or art and technology in ecology	
G.I. Agren and E. Bosatta (Uppsala, Sweden)	213
etters to the Editor	221
Suide to CAuthore	225

